

Title (en)

METHOD FOR PRODUCING WATER ABSORBENT RESIN

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES WASSERABSORBIERENDEN HARZES

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE RÉSINE ABSORBANT L'EAU

Publication

**EP 2527391 A4 20141001 (EN)**

Application

**EP 11734736 A 20110120**

Priority

- JP 2010084024 A 20100331
- JP 2010009812 A 20100120
- JP 2011051004 W 20110120

Abstract (en)

[origin: EP2527391A1] In a method for producing a water absorbent resin by drying a particulate hydrogel having a high solid content concentration (of 45% by weight or more, preferably 50% by weight or more, and more preferably 55% by weight or more), a method for efficient drying water absorbent resin having maintained/improved physical properties is provided. Disclosed is a method for producing a water absorbent resin, comprising: a polymerization step to polymerize an unsaturated monomer, and; a drying step to dry a particulate hydrogel crosslinked polymer, which is obtained by micronization of a hydrogel polymer during or after the polymerization and which has a solid content concentration of 45% by weight or more, wherein, an amount of a peroxide in the particulate hydrogel crosslinked polymer to be dried in the drying step is 1 to 100 ppm relative to the weight of the solid content of the particulate hydrogel crosslinked polymer, and a drying temperature of the particulate hydrogel crosslinked polymer in the drying step is 160°C or more.

IPC 8 full level

**C08J 3/12** (2006.01); **B01J 20/26** (2006.01); **C08F 6/10** (2006.01)

CPC (source: EP US)

**A61L 15/60** (2013.01 - EP US); **B01J 20/267** (2013.01 - EP US); **B01J 20/28004** (2013.01 - EP US); **B01J 20/28047** (2013.01 - EP US); **C08F 6/008** (2013.01 - EP US); **C08J 3/245** (2013.01 - EP US); **B01J 2220/68** (2013.01 - EP US); **C08F 6/006** (2013.01 - US); **C08F 20/04** (2013.01 - US); **C08F 20/06** (2013.01 - US); **C08J 3/12** (2013.01 - US); **C08J 9/28** (2013.01 - US); **C08J 2300/14** (2013.01 - EP US); **C08J 2333/02** (2013.01 - EP US)

C-Set (source: EP US)

**A61L 15/60** + **C08L 33/02**

Citation (search report)

- [XPA] EP 2189478 A1 20100526 - NIPPON CATALYTIC CHEM IND [JP] & WO 2009028568 A1 20090305 - NIPPON CATALYTIC CHEM IND [JP], et al
- [XDA] WO 2007116778 A1 20071018 - NIPPON CATALYTIC CHEM IND [JP], et al & JP 2009531467 A 20090903
- See also references of WO 2011090130A1

Cited by

EP4169972A4; CN109790241A; EP3517551A4; EP2585213A4; EP2808078A1; EP2527390A4; US11407845B2; WO2023046583A1

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